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21 [The base-rate fallacy and its implications for the difficulty of intrusion detection](#) 
 Stefan Axelsson
 November 1999 **Proceedings of the 6th ACM conference on Computer and communications security**
 Full text available:  pdf(632.67 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)
 Many different demands can be made of intrusion detection systems. An important requirement is that it be effective i.e. that it should detect a substantial percentage of intrusions into the supervised system, while still keeping the false alarm rate at an acceptable level. This paper aims to demonstrate that, for a reasonable set of assumptions, the false alarm rate is the limiting factor for the performance of an intrusion detection system. This ...

22 [Artificial intelligence in the treatment of ventricular tachycardia](#) 
 E. Dennis Huthnance, Dan DiLorenzo
 June 1990 **Proceedings of the third international conference on Industrial and engineering applications of artificial intelligence and expert systems - Volume 2**
 Full text available:  pdf(651.31 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)
 This paper describes the development of an expert system to aid physicians in locating the origin of Ventricular Tachycardia (VT). The system combines a traditional rule based system with digital signal processing routines which provide the input for the rule based system.

23 [Computer applications in health care \(CAHC\): Towards a flexible, process-oriented IT architecture for an integrated healthcare network](#) 
 Mario Beyer, Klaus A. Kuhn, Christian Meiler, Stefan Jablonski, Richard Lenz
 March 2004 **Proceedings of the 2004 ACM symposium on Applied computing**
 Full text available:  pdf(253.64 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)
 Healthcare information systems play an important role in improving healthcare quality. As providing healthcare increasingly changes from isolated treatment episodes towards a continuous medical process involving multiple healthcare professionals and institutions, there is an obvious need for an information system to support processes and span the whole healthcare network. A suitable architecture for such an information system must take into account that it has to work as an integral part of a co ...

Keywords: evolutionary information systems, healthcare networks, integrated care, process orientation, systems integration

24 Some observations on modelling case based reasoning with formal argument models 

T. J. M. Bench-Capon

June 1999 **Proceedings of the seventh international conference on Artificial intelligence and law**

Full text available:  pdf(795.72 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In this paper I shall explore the modelling of case based reasoning using a formal model of argument, taking the approach of Prakken and Sartor as my starting point. I first consider their method of representing cases, and describe how — if we restrict ourselves to independent boolean factors — we can fruitfully model the domain as a partial order on rules. I then consider the issues relating to quantifiable factors, as used in HYPO, and factor hierarchies, as used in CATO. The ...

Keywords: argument, case based reasoning, precedent

25 User and Concept Studies as Tools in Developing Mobile Communication Services for the Elderly 

M. Mikkonen, S. Väyrynen, V. Ikonen, M. O. Heikkilä

January 2002 **Personal and Ubiquitous Computing**, Volume 6 Issue 2

Full text available:  pdf(416.56 KB)

Additional Information: [full citation](#), [abstract](#), [index terms](#)

The basis of this study was the ageing of the population all over the world. The study concentrated on finding out the key service needs of elderly people. The service needs from the end users' as well as the experts' perspective were gathered by means of various group methods such ideation sessions. Four mobile communication service concepts were created using these groups' opinions. After diverse communication, these concepts were tested by the elderly. The research methods c ...

26 Tools and techniques for interaction: Ubiquitous computing and AI towards an inclusive society 

Daniel Jorge Viegas Gonçalves

May 2001 **Proceedings of the 2001 EC/NSF workshop on Universal accessibility of ubiquitous computing: providing for the elderly**

Full text available:  pdf(487.39 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Elder citizens are faced with a large number of problems on their everyday lives. Loss of motor, sensorial and cognitive skills results in a growing difficulty to live and interact in today's society. Ubiquitous computing can help alleviate these problems, by allowing elders to have a normal life despite their shortcomings. Medical monitoring, communication and memory aids are already being developed. However, the large amount of data produced by those devices is of little use if not subject to ...

Keywords: artificial intelligence, automated planning, elders, integration, knowledge representation, ubiquitous computing

27 How to make software softer---designing tailorable applications 

Oliver Stiemerling, Helge Kahler, Volker Wulf

August 1997 **Proceedings of the conference on Designing interactive systems: processes, practices, methods, and techniques**

Full text available:  pdf(1.25 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: design cases, groupware, participatory design, tailorability

28 Strategic IT applications in health care 

Wullianallur Raghupathi, Joseph Tan

December 2002 **Communications of the ACM**, Volume 45 Issue 12

Full text available:  pdf(123.82 KB)

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29 Why A Curriculum In Health Computing? 

Roger H. Shannon, Karen A. Duncan

December 1978 **Proceedings of the 1978 annual conference**

Full text available:  pdf(405.64 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The significant social need for health computing professionals is discussed and a justification for curriculum development is presented. Health computing is seen to be a discipline or profession which is based in the three academic fields of computer science, health science, and sociology. But there is also a need for a synthesis, or focus, of these fields on the health care system through an achieved power of abstraction and sense of system relationships and dynamics. A concept of the role ...

Keywords: Curriculum, Health care computing, Health computing, Health informatics, Health information science, Medical computing, Medical informatics

30 Building a large knowledge base for a natural language system 

Jerry R. Hobbs

July 1984

Full text available:  pdf(383.53 KB)

 Publisher Site

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

A sophisticated natural language system requires a large knowledge base. A methodology is described for constructing one in a principled way. Facts are selected for the knowledge base by determining what facts are linguistically presupposed by a text in the domain of interest. The facts are sorted into clusters, and within each cluster they are organized according to their logical dependencies. Finally, the facts are encoded as predicate calculus axioms.

31 Ethics and the computerization of pharmacy 

Robert L. McCarthy, Judith A. Perrolle

August 1990 **ACM SIGCAS Computers and Society , Proceedings of the conference on Computers and the quality of life**, Volume 20 Issue 3

Full text available:  pdf(759.40 KB)

Additional Information: [full citation](#), [references](#), [index terms](#)

32 Papers Presented at Williamsburg Workshop: The impact of computers on society: the health sector 

Roger H. Shannon

July 1981 **ACM SIGCAS Computers and Society**, Volume 11 Issue 3

Full text available:  pdf(880.95 KB) Additional Information: [full citation](#), [references](#)



33 Analysis of eye tracking movements using FIR median hybrid filters

J. Gu, M. Meng, A. Cook, M G. Faulkner

November 2000 **Proceedings of the symposium on Eye tracking research & applications**

Full text available:  pdf(423.97 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper presents an approach of using FIR Median Hybrid Filters for analysis of eye tracking movements. The proposed filter can remove the eye blink artifact from the eye movement signal. The background of the project is described first. The whole idea is to put movements into eyes, which are used as static prosthesis, so that the ocular implant will have the same natural movement as the real eye. First step is to obtain the movement of the real eye. From the review of the eye movement met ...

Keywords: FIR median hybrid filter, electrooculogram, eye blink, eye movement



34 Data modeling of scientific experimentation

J. Michael Pratt

February 1995 **Proceedings of the 1995 ACM symposium on Applied computing**

Full text available:  pdf(684.29 KB) Additional Information: [full citation](#), [references](#), [index terms](#)

Keywords: ER model, data modeling, experimental data, relational database, scientific database



35 Is big brother hanging by his bootstraps?

L. T. Greenberg, S. E. Goodman

July 1996 **Communications of the ACM**, Volume 39 Issue 7

Full text available:  pdf(586.26 KB) Additional Information: [full citation](#), [references](#), [index terms](#), [review](#)

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Relevance scale

1 [A contribution to the development of ALGOL](#)

Niklaus Wirth, C. A. R. Hoare

June 1966 **Communications of the ACM**, Volume 9 Issue 6Full text available: [pdf\(2.56 MB\)](#) Additional Information: [full citation](#), [citations](#).**2** [A new uniform pseudorandom number generator](#)

David W. Hutchinson

June 1966 **Communications of the ACM**, Volume 9 Issue 6Full text available: [pdf\(453.63 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#).**3** [Complexity of finite-horizon Markov decision process problems](#)

Martin Mundhenk, Judy Goldsmith, Christopher Lusena, Eric Allender

July 2000 **Journal of the ACM (JACM)**, Volume 47 Issue 4Full text available: [pdf\(461.61 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#).

Controlled stochastic systems occur in science engineering, manufacturing, social sciences, and many other contexts. If the systems is modeled as a Markov decision process (MDP) and will run ad infinitum, the optimal control policy can be computed in polynomial time using linear programming. The problems considered here assume that the time that the process will run is finite, and based on the size of the input. There are many factors that compound the complexity of computing ...

Keywords: Markov decision processes, NP, NPPP, PL, PSPACE, computational complexity, partially observable Markov decision processes, succinct representations

4 [The split-up system: integrating neural networks and rule-based reasoning in the legal domain](#)

John Zelezniak, Andrew Stranieri

May 1995 **Proceedings of the fifth international conference on Artificial intelligence and law**Full text available: [pdf\(757.34 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#).

5 Building the data warehouse

Stephen R. Gardner

September 1998 **Communications of the ACM**, Volume 41 Issue 9

Full text available:  pdf(293.88 KB) Additional Information: [full citation](#), [citations](#), [index terms](#), [review](#)



6 Health care management

Cecilia Claudio

September 1998 **Communications of the ACM**, Volume 41 Issue 9

Full text available:  pdf(117.65 KB) Additional Information: [full citation](#), [index terms](#), [review](#)



7 Decomposable negation normal form

Adnan Darwiche

July 2001 **Journal of the ACM (JACM)**, Volume 48 Issue 4

Full text available:  pdf(860.91 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Knowledge compilation has been emerging recently as a new direction of research for dealing with the computational intractability of general propositional reasoning. According to this approach, the reasoning process is split into two phases: an off-line compilation phase and an on-line query-answering phase. In the off-line phase, the propositional theory is compiled into some target language, which is typically a tractable one. In the on-line phase, the compiled target is used to efficiently an ...

Keywords: Boolean functions, knowledge compilation, model-based diagnosis, propositional logic, satisfiability

8 Medical informatics: a personal view of sowing the seeds

R. S. Ledley

December 1987 **Proceedings of ACM conference on History of medical informatics**

Full text available:  pdf(1.37 MB) Additional Information: [full citation](#), [references](#), [index terms](#)



9 Non-uniform key distribution and address calculation sorting

Michael E. Tarter, Richard A. Kronmal

January 1966 **Proceedings of the 1966 21st national conference**

Full text available:  pdf(528.31 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)



It is currently far from uncommon for researchers to be confronted with the problem of sorting large files of data, e.g., 20,000 items or keys. One sorting procedure, known as address calculation sorting, is a two stage process in which an address calculation function is constructed by a preliminary examination of the keys. This function is used to insert each key into a location, hopefully near its position in the final sorted file. This process has been referred to as "rough focusin ...

10

A prognosis for use of health, medical, and genetic information: Security and privacy after September 11: the health care example



Peter Swire, Lauren Steinfeld

April 2002 **Proceedings of the 12th annual conference on Computers, freedom and privacy**

Full text available:  pdf(70.27 KB)

Additional Information: [full citation](#), [citations](#), [index terms](#)



- 11 A Monte Carlo based simulation network model for a chronic progressive disease: the case of diabetic retinopathy**

Joseph K. Canner, Yen-Pin Chiang, Jonathan C. Javitt

December 1992 **Proceedings of the 24th conference on Winter simulation**

Full text available:  pdf(880.37 KB)

Additional Information: [full citation](#), [references](#), [index terms](#)



- 12 Developing computational models of discretion to build legal knowledge based systems**

Yaakov HaCohen Kerner, Uri Schild, John Zeleznikow

June 1999 **Proceedings of the seventh international conference on Artificial intelligence and law**

Full text available:  pdf(861.20 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Few legal knowledge based systems have been constructed which provide numerical advice. None have been built in discretionary domains. Our research, directed towards the domains of sentencing and family law property division has lead to the development of three distinct forms of judicial discretion. To model these different discretionary domains we use diverse artificial intelligence tools including case-based reasoning and knowledge discovery from databases. We carry out a detail ...

Keywords: classifying discretionary domains, discretion, evaluation, explanation, learning from cases



- 13 Game strategy and collusion in an oligopolistic market**

Joel Shechter

August 1969 **Proceedings of the 1969 24th national conference**

Full text available:  pdf(655.24 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper provides a possible solution to the following problem: Can basic game strategy be applied in an oligopolistic market, where two individuals or firms, in collusion, divide a market area in which they have historically been competing? The competitors are brought together by the desire to eliminate ruinous price competition and by the need to determine a price leader as an integral part of the process of market division. A possible solution to this problem is ...



- 14 Evaluation methods in SARA—the graph model simulator**

Rami R. Razouk, Mary Vernon, Gerald Estrin

August 1979 **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 1979 ACM SIGMETRICS conference on Simulation, measurement and modeling of computer systems**, Volume 8 Issue 3

Full text available:  pdf(1.58 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The supported methodology evolving in the SARA (System ARchitects' Apprentice) system creates a design frame-work on which increasingly powerful analytical tools are to be grafted. Control flow analyses and program verification tools have shown promise. However, in the realm of the complex systems which interest us there is a great deal of

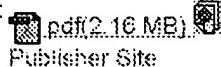
research and development to be done before we can count on the use of such powerful tools. We must always be prepared to resort to experiments for evalua ...

15 The interaction of knowledge sources in word sense disambiguation 

Mark Stevenson, Yorick Wilks

September 2001 **Computational Linguistics**, Volume 27 Issue 3

Full text available:



Additional Information: [full citation](#), [abstract](#), [references](#)

[Publisher Site](#)

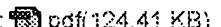
Word sense disambiguation (WSD) is a computational linguistics task likely to benefit from the tradition of combining different knowledge sources in artificial intelligence research. An important step in the exploration of this hypothesis is to determine which linguistic knowledge sources are most useful and whether their combination leads to improved results. We present a sense tagger which uses several knowledge sources. Tested accuracy exceeds 94% on our evaluation corpus. Our system attempts ...

16 The base-rate fallacy and the difficulty of intrusion detection 

Stefan Axelsson

August 2000 **ACM Transactions on Information and System Security (TISSEC)**, Volume 3 Issue 3

Full text available:



Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Many different demands can be made of intrusion detection systems. An important requirement is that an intrusion detection system be effective; that is, it should detect a substantial percentage of intrusions into the supervised system, while still keeping the false alarm rate at an acceptable level. This article demonstrates that, for a reasonable set of assumptions, the false alarm rate is the limiting factor for the performance of an intrusion detection system. This is d ...

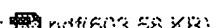
Keywords: base-rate fallacy, detection rate, false alarm rate, intrusion detection

17 Applications of spatial simulation of discrete entities: Scalable, efficient epidemiological simulation 

Stephen Eubank

March 2002 **Proceedings of the 2002 ACM symposium on Applied computing**

Full text available:



Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We describe the design and implementation of a system for simulating the spread of disease among individuals in a large urban population over the course of several weeks. In contrast to traditional approaches, we do not assume uniform mixing among large sub-populations or split the population into spatial or demographic subpopulations determined *a priori*. Instead, we rely on empirical estimates of the social network, or contact patterns, that are produced by TRANSIMS, a large-scale simula ...

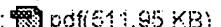
Keywords: epidemiology, individual based, parallel discrete event simulation

18 Increasing the clinical relevance of a mental health information system 

Michael J. Gorodezky, James Rusnak

August 1990 **ACM SIGCAS Computers and Society , Proceedings of the conference on Computers and the quality of life**, Volume 20 Issue 3

Full text available:



Additional Information: [full citation](#), [references](#), [index terms](#)

- 19** Evolution of relative synonymous codon usage in Human Immunodeficiency Virus type-1

Peter L. Meintjes, Allen G. Rodrigo

January 2004 **Proceedings of the second conference on Asia-Pacific bioinformatics - Volume 29**

Full text available:  pdf(210.27 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

Mutation in HIV-1 is extremely rapid, a consequence of a low-fidelity viral reverse transcription process. The envelope gene has been shown to accumulate substitutions at a rate of approximately 1% per year and can frequently spend a long time in the host (approximately 10 years). The relative synonymous codon usage (RSCU) in HIV-1 is known to be different from that of the human host. However, by reengineering the protein coding sequences of HIV-1 to reflect the RSCU patterns observed in humans, ...

Keywords: Codon Usage, HIV-1, Principle Components Analysis, RSCU

- 20** The history of the use of computers in the interpretation of radiological images

G. S. Lodwick

December 1987 **Proceedings of ACM conference on History of medical informatics**

Full text available:  pdf(1.19 MB) Additional Information: [full citation](#), [references](#), [index terms](#)

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Relevance scale

- 1** A prognosis for use of health, medical, and genetic information: Security and privacy after September 11: the health care example

Peter Swire, Lauren Steinfeld

 April 2002 **Proceedings of the 12th annual conference on Computers, freedom and privacy**

 Full text available: [pdf\(70.27 KB\)](#) Additional Information: [full citation](#), [citations](#), [index terms](#)


- 2** Simulation of service facilities: Simulating the impacts of closing a state mental hospital

Neal N. McCollum, Daniel M. Harris

 December 1982 **Proceedings of the 14th conference on Winter Simulation - Volume 2**

 Full text available: [pdf\(1.76 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

The state of Missouri, suffering from lack of state and federal funds, is seeking to better manage available resources in order to continue to provide an acceptable level of service to the citizens of the state. The state Department of Mental Health (DMH), having experienced an overall shift in services during the last thirty years, wished to investigate the possible impacts of closing one of its five in patient mental hospitals. This impact is partially measured by a simulation model which m ...

- 3** Applications of spatial simulation of discrete entities: Scalable, efficient epidemiological simulation

Stephen Eubank

 March 2002 **Proceedings of the 2002 ACM symposium on Applied computing**

 Full text available: [pdf\(603.58 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


We describe the design and implementation of a system for simulating the spread of disease among individuals in a large urban population over the course of several weeks. In contrast to traditional approaches, we do not assume uniform mixing among large subpopulations or split the population into spatial or demographic subpopulations determined *a priori*. Instead, we rely on empirical estimates of the social network, or contact patterns, that are produced by TRANSIMS, a large-scale simula ...

Keywords: epidemiology, individual based, parallel discrete event simulation

- 4 [Industrial demonstrations: The BodyMedia platform: continuous body intelligence](#)
Astro Teller, John (Ivo) Stivoric
October 2004 **Proceedings of the the 1st ACM workshop on Continuous archival and retrieval of personal experiences**

Full text available:  pdf(1.34 MB) Additional Information: [full citation](#), [abstract](#), [index terms](#)

Only by making computing intimate to the body can products begin to know our states of mind, our contexts, our states of health, etc. and respond (or have other aspects of the world respond) in intelligent ways. Sympathetic products, driven by computers worn on the body, are coming and **the industry** will grow up with wearable body monitoring at its core.

BodyMedia, Inc. has been building toward this vision since 1999 and today has a commercially available, clinically test ...

Keywords: biomedical, body LAN, data mining, derived data, lifestyle data, machine learning, multi-parameter, multi-sensor, personal area network, physiological data, wearable body monitoring, wearable computing, wireless transceiver

- 5 [Increasing the clinical relevance of a mental health information system](#)
Michael J. Gorodezky, James Rusnak
August 1990 **ACM SIGCAS Computers and Society , Proceedings of the conference on Computers and the quality of life**, Volume 20 Issue 3

Full text available:  pdf(611.95 KB) Additional Information: [full citation](#), [references](#), [index terms](#)

- 6 [The computerized electrocardiogram: A model for medical signal analysis](#)
Anna Lea Wehrer, John R. Whiteman, Cesar A. Caceres
January 1967 **Proceedings of the 1967 22nd national conference**

Full text available:  pdf(675.95 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The most widespread use of computers by hospitals to date is for administrative purposes. In contrast to these essentially nonmedical uses, the Instrumentation Field Station of the United States Public Health Service and other medical groups have developed programs for automatic analysis of medical signals. In these systems the electrocardiogram served as the model. Typically there are two program parts, pattern recognition and diagnosis. The IFS systems are primarily for clinical use now r ...

- 7 [Influence of the social context and medium: Paralanguage in computer-mediated communication](#)
John Carey
June 1980 **Proceedings of the 18th conference on Association for Computational Linguistics**

Full text available:  pdf(260.09 KB) Additional Information: [full citation](#), [abstract](#), [references](#)
 Publisher Site

This paper reports on some of the components of person to person communication mediated by computer conferencing systems. Transcripts from two systems were analysed: the Electronic Information and Exchange System (EIES), based at the New Jersey Institute of Technology; and Planet, based at Infomedia Inc. in Palo Alto, California. The research focused upon the ways in which expressive communication is encoded by users of the medium

- 8 [Foundation of a framework to support knowledge management in the field of context-](#)

aware and pervasive computing

Philipp Amann, Gerald Quirchmayr

January 2003 Proceedings of the Australasian information security workshop conference on ACSW frontiers 2003 - Volume 21Full text available:  pdf(761.39 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper we propose a framework to combine Knowledge Management and context-aware and pervasive computing, emphasizing on synchronization and adaptation issues of workflow processes in mobile settings. The key aspect of the proposed framework is to enable adaptive, two-way interaction between context-aware systems and users in mobile settings. In contrast to existing concepts, we aim at capturing active feedback from users, which should contribute to the *Organizational Memory*, after ...

Keywords: WfMS, adaptability, context-awareness, knowledge management, local autonomy, pervasive computing, synchronization

9 User and Concept Studies as Tools in Developing Mobile Communication Services for the Elderly

M. Mikkonen, S. Väyrynen, V. Ikonen, M. O. Heikkilä

January 2002 Personal and Ubiquitous Computing, Volume 6 Issue 2Full text available:  pdf(416.56 KB) Additional Information: [full citation](#), [abstract](#), [index terms](#)

The basis of this study was the ageing of the population all over the world. The study concentrated on finding out the key service needs of elderly people. The service needs from the end users' as well as the experts' perspective were gathered by means of various group methods such ideation sessions. Four mobile communication service concepts were created using these groups' opinions. After diverse communication, these concepts were tested by the elderly. The research methods c ...

10 Artificial intelligence approaches in space power systems automation at Marshall space flight center

David J. Weeks

June 1988 Proceedings of the first international conference on Industrial and engineering applications of artificial intelligence and expert systems - Volume 1Full text available:  pdf(482.68 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Advancements in the field of artificial intelligence (AI) made during this decade have forever changed the way we look at automating spacecraft subsystems including the electrical power system. This paper will discuss various applications of AI to spacecraft electrical power systems. Such discussion will include an overview of various completed, on-going, and planned knowledge-based system activities. These applications include NICBES (Nickel-Cadmium Battery Expert System which is interface ...

11 Some observations on modelling case based reasoning with formal argument models

T. J. M. Bench-Capon

June 1999 Proceedings of the seventh international conference on Artificial intelligence and lawFull text available:  pdf(796.72 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In this paper I shall explore the modelling of case based reasoning using a formal model of argument, taking the approach of Prakken and Sartor as my starting point. I first consider their method of representing cases, and describe how — if we restrict ourselves to independent boolean factors — we can fruitfully model the domain as a partial order on rules. I then consider the issues relating to quantifiable factors, as used in HYPO, and factor

hierarchies, as used in CATO. The ...

Keywords: argument, case based reasoning, precedent

12 How to make software softer---designing tailorable applications 

Oliver Stiemerling, Helge Kahler, Volker Wulf

August 1997 **Proceedings of the conference on Designing interactive systems: processes, practices, methods, and techniques**

Full text available:  pdf(1.25 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: design cases, groupware, participatory design, tailorability

13 The split-up system: integrating neural networks and rule-based reasoning in the legal domain 

John Zeleznikow, Andrew Stranieri

May 1995 **Proceedings of the fifth international conference on Artificial intelligence and law**

Full text available:  pdf(757.34 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

14 Information sharing and access: The multiple views of inter-organizational authoring 

David W. McDonald, Chunhua Weng, John H. Gennari

November 2004 **Proceedings of the 2004 ACM conference on Computer supported cooperative work**

Full text available:  pdf(935.59 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Collaborative authoring is a common workplace task. Yet, despite improvements in word processors, communication software, and file sharing, many problems continue to plague co-authors. We conducted a qualitative study in a setting where participants are loosely connected, physically separated, and work together over a period of 4-9 months to author a complex technical document—a clinical trial protocol. Our study differs from most prior work in that the collaboration is longer-lived, and that ...

Keywords: clinical trials, collaborative authoring, field study, medical informatics

15 Session 5 (short papers): analysis issues: Tracking structural evolution using origin analysis 

Michael Godfrey, Qiang Tu

May 2002 **Proceedings of the International Workshop on Principles of Software Evolution**

Full text available:  pdf(288.86 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

Many long term studies of software evolution have made the simplifying assumption that the system's architecture and low-level structure is relatively stable. In our past work, we have found that this is often untrue; therefore, we have sought to investigate ways to detect and model structural change in software systems through a technique we call *origin analysis* [6] and supported a tool called Beagle [7]. In this position paper, we present a summary of our recent and ongoing work in this ...

Keywords: software architecture, software evolution, structural change, supporting environments.

16 Artificial intelligence in the treatment of ventricular tachycardia

E. Dennis Huthnance, Dan DiLorenzo

June 1990 **Proceedings of the third international conference on Industrial and engineering applications of artificial intelligence and expert systems - Volume 2**Full text available: pdf(551.31 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper describes the development of an expert system to aid physicians in locating the origin of Ventricular Tachycardia (VT). The system combines a traditional rule based system with digital signal processing routines which provide the input for the rule based system.

17 Some components of a program for dynamic modelling of historical change in language

Sheldon Klein

May 1965 **Proceedings of the 1965 conference on Computational linguistics**Full text available: pdf(680.54 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

A system that is to serve as a vehicle for testing models of language change is being programmed in JOVIAL. Inherent in the design of the system is the requirement that each member of a speech community be represented by a generation grammar and a recognition grammar. The units of interaction in a simulation are conversations. Grammar rules may be borrowed or lost by individuals during the course of a simulation. The rules themselves need not be limited to those suggested by a particular theory ...

18 Digital plotting from a line generator format: an interface

Joseph J. Capowski

July 1975 **ACM SIGGRAPH Computer Graphics**, Volume 9 Issue 2Full text available: pdf(986.78 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

A hard copy capability was needed for the CRT of a PDP-11/LDS-2 graphics facility. Available hardware was inconvenient or unsatisfactory for several reasons. An Hewlett-Packard 7210 A Digital Plotter was selected and an interface from standard line generator format to the plotter was designed and built. The results are a fast, quiet, high-quality hard copy capability requiring negligible software.

Keywords: computer graphics, hard copy, plotter

19 Workshops: Considering trust in ambient societies

Stephen Marsh, Pamela Briggs, Waleed Wagealla

April 2004 **Extended abstracts of the 2004 conference on Human factors and computing systems**Full text available: pdf(186.14 KB) Additional Information: [full citation](#), [references](#), [index terms](#)

Keywords: ambient trust, clarity of explanation, transitivity, trust, ubiquitous computing

20 Panel and workshop reports from KDD-2003: Summary from the KDD-03 panel: data mining: the next 10 yearsUsama M. Fayyad, Gregory Piatetsky-Shapiro, Ramasamy Uthurusamy
December 2003 **ACM SIGKDD Explorations Newsletter**, Volume 5 Issue 2

Full text available: [!\[\]\(9ec46ccf39110b98e9de4be0362c59b6_img.jpg\) pdf \(80.80 KB\)](#)

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1 Artificial intelligence approaches in space power systems automation at Marshall space flight center 
David J. Weeks
June 1988 **Proceedings of the first international conference on Industrial and engineering applications of artificial intelligence and expert systems - Volume 1**
Full text available:  pdf(482.68 KB) Additional Information: full citation, abstract, references, index terms
Advancements in the field of artificial intelligence (AI) made during this decade have forever changed the way we look at automating spacecraft subsystems including the electrical power system. This paper will discuss various applications of AI to spacecraft electrical power systems. Such discussion will include an overview of various completed, on-going, and planned knowledge-based system activities. These applications include NICBES (Nickel-Cadmium Battery Expert System which is interface ...

2 Industrial demonstrations: The BodyMedia platform: continuous body intelligence 
Astro Teller, John (Ivo) Stivicic
October 2004 **Proceedings of the the 1st ACM workshop on Continuous archival and retrieval of personal experiences**
Full text available:  pdf(1.34 MB) Additional Information: full citation, abstract, index terms
Only by making computing intimate to the body can products begin to know our states of mind, our contexts, our states of health, etc. and respond (or have other aspects of the world respond) in intelligent ways. Sympathetic products, driven by computers worn on the body, are coming and **the industry** will grow up with wearable body monitoring at its core.

BodyMedia, Inc. has been building toward this vision since 1999 and today has a commercially available, clinically test ...

Keywords: biomedical, body LAN, data mining, derived data, lifestyle data, machine learning, multi-parameter, multi-sensor, personal area network, physiological data, wearable body monitoring, wearable computing, wireless transceiver

3 Medical informatics: a personal view of sowing the seeds 
R. S. Ledley
December 1987 **Proceedings of ACM conference on History of medical informatics**

Full text available:  pdf(1.37 MB)

Additional Information: [full citation](#), [references](#), [index terms](#)



4 Foundation of a framework to support knowledge management in the field of context-aware and pervasive computing

Philipp Amann, Gerald Quirchmayr

January 2003 **Proceedings of the Australasian information security workshop conference on ACSW frontiers 2003 - Volume 21**

Full text available:  pdf(761.39 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

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Keywords: WfMS, adaptability, context-awareness, knowledge management, local autonomy, pervasive computing, synchronization



5 Human factors issues in the neural signals direct brain-computer interfaces

Melody M. Moore, Philip R. Kennedy

November 2000 **Proceedings of the fourth international ACM conference on Assistive technologies**

Full text available:  pdf(398.54 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: accessible software, brain-computer interfaces, neural signals

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Telecommunications Energy Conference, 2000. INTELEC. Twenty-second International , 10-14 Sept. 2000

Pages:687 - 694

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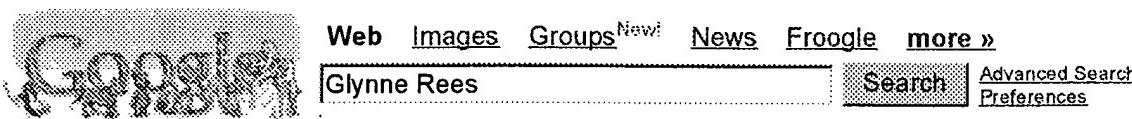
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Moran, M.; Rees, G.J.; Woodhead, J.;
Optoelectronics, IEE Proceedings- , Volume: 146 , Issue: 1 , Feb. 1999
Pages: 31 - 34

[\[Abstract\]](#) [\[PDF Full-Text \(368KB\)\]](#) **IEE JNL****47 Low noise GaAs and Al_{0.3}Ga_{0.7}As avalanche photodetectors**

Li, K.F.; Ong, D.S.; David, J.P.R.; Tozer, R.C.; Rees, G.J.; Robson, P.N.; Grey,
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[\[Abstract\]](#) [\[PDF Full-Text \(348KB\)\]](#) **IEE JNL****48 Optical bistability in piezoelectric InGaAs/AlGaAs laser with saturable absorber**

Khoo, E.A.; Woodhead, J.; David, J.P.R.; Grey, R.; Rees, G.J.;
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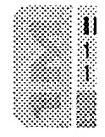
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14 Low avalanche noise characteristics in thin InP p⁺-i-n⁺ diodes with electron initiated multiplication

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15 Avalanche multiplication noise characteristics in thin GaAs p⁺-i-n⁺ diodes

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Khoo, E.A.; Woodhead, J.; David, J.P.R.; Grey, R.; Rees, G.J.;
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Pages: 150 - 152

[\[Abstract\]](#) [\[PDF Full-Text \(292KB\)\]](#) **IEE JNL****62 Low excess noise characteristics in thin avalanche region GaAs diodes**

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[\[Abstract\]](#) [\[PDF Full-Text \(248KB\)\]](#) **IEE JNL****63 Low threshold InGaAs/AlGaAs lasers grown on (111)B GaAs substrates**

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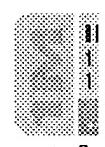
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Li, K.F.; Ong, D.S.; David, J.P.R.; Rees, G.J.; Tozer, R.C.; Robson, P.N.; Grey
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Goodfellow, R.; Debney, B.; Rees, G.; Buus, J.;
Lightwave Technology, Journal of , Volume: 3 , Issue: 6 , Dec 1985
Pages:1170 - 1179

[\[Abstract\]](#) [\[PDF Full-Text \(1312KB\)\]](#) **IEEE JNL****2 Temperature dependence of impact ionization in GaAs**

Groves, C.; Ghin, R.; David, J.P.R.; Rees, G.J.;
Electron Devices, IEEE Transactions on , Volume: 50 , Issue: 10 , Oct. 2003
Pages:2027 - 2031

[\[Abstract\]](#) [\[PDF Full-Text \(390KB\)\]](#) **IEEE JNL****3 Nonlocal effects in thin 4H-SiC UV avalanche photodiodes**

Ng, B.K.; David, J.P.R.; Tozer, R.C.; Rees, G.J.; Feng Yan; Zhao, J.H.; Weiner
Electron Devices, IEEE Transactions on , Volume: 50 , Issue: 8 , Aug. 2003
Pages:1724 - 1732

[\[Abstract\]](#) [\[PDF Full-Text \(672KB\)\]](#) **IEEE JNL****4 Field dependence of impact ionization coefficients in In_{0.53}/Ga_{0.47}/As**

Ng, J.S.; Tan, C.H.; David, J.P.R.; Hill, G.; Rees, G.J.;
Electron Devices, IEEE Transactions on , Volume: 50 , Issue: 4 , April 2003
Pages:901 - 905

[\[Abstract\]](#) [\[PDF Full-Text \(312KB\)\]](#) **IEEE JNL****5 The effects of nonlocal impact ionization on the speed of avalanche photodiodes**

Hambleton, P.J.; Ng, B.K.; Plummer, S.A.; David, J.P.R.; Rees, G.J.;
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Tan, C.H.; Hambleton, P.J.; David, J.P.R.; Tozer, R.C.; Rees, G.J.; Lightwave Technology, Journal of , Volume: 21 , Issue: 1 , Jan. 2003 Pages:155 - 159

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8 Avalanche multiplication and breakdown in Al_xGa_{1-x}As < 0.9)

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10 Excess noise characteristics of Al_{0.8}Ga_{0.2}As avalanche photodiodes

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11 Avalanche multiplication characteristics of Al_{0.8}Ga_{0.2}As diodes

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12 Low multiplication noise thin Al_{0.6}Ga_{0.4}As avalanche photodiodes

Chee Hing Tan; David, J.P.R.; Plimmer, S.A.; Rees, G.J.; Tozer, R.C.; Grey, R. Electron Devices, IEEE Transactions on ,Volume: 48 , Issue: 7 , July 2001 Pages:1310 - 1317

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Li, K.F.; Ong, D.S.; David, J.P.R.; Tozer, R.C.; Rees, G.J.; Plimmer, S.A.; Cha, K.Y.; Roberts, J.S.;

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15 Low avalanche noise characteristics in thin InP p⁺-i-n⁺ diodes with electron initiated multiplication

Li, K.F.; Plimmer, S.A.; David, J.P.R.; Tozer, R.C.; Rees, G.J.; Robson, P.N.; Button, C.C.; Clark, J.C.;

Photonics Technology Letters, IEEE , Volume: 11 , Issue: 3 , March 1999
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Prior, C.R.; Adams, D.J.; Bailey, C.P.; Bellenger, D.W.J.; Bellodi, G.; Bennett, J.R.J.; Gardner, I.S.K.; Gerigk, F.; Gray, J.W.; Morris, W.A.; Rees, G.H.; Trotti, J.V.; Warsop, C.M.; Particle Accelerator Conference, 2003. PAC 2003. Proceedings of the , Volume 3 , 12-16 May 2003
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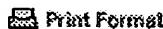
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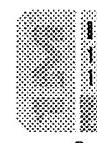
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Bolljahn, J.; Reese, R.;
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9 A USITA "Look-Ahead" at switching technology

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10 Avalanche multiplication characteristics of Al_{0.8}Ga_{0.2}As diodes

Ng, B.K.; David, J.P.R.; Plimmer, S.A.; Rees, G.J.; Tozer, R.C.; Hopkinson, M. G.;
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Chee Hing Tan; David, J.P.R.; Plimmer, S.A.; Rees, G.J.; Tozer, R.C.; Grey, R.
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13 Nonlinear gas turbine modeling using NARMAX structures

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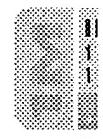
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Bacon, J.L.; Ammerman, C.N.; Coe, H.; Ellis, G.W.; Lesch, B.L.; Sims, J.R.; Schillig, J.B.; Swenson, C.A.;

Applied Superconductivity, IEEE Transactions on , Volume: 12 , Issue: 1 , Mar 2002

Pages:695 - 698

[\[Abstract\]](#) [\[PDF Full-Text \(219KB\)\]](#) **IEEE JNL****2 Electromagnetic powder deposition experiments**

Zowarka, R.C.; Uglum, J.R.; Bacon, J.L.; Driga, M.D.; Sledge, R.L.; Davis, D.C. Magnetics, IEEE Transactions on , Volume: 35 , Issue: 1 , Jan. 1999

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Bresie, D.A.; Bacon, J.L.; Ingram, S.K.; Kennington, K.S.; Weeks, D.A.; Magnetics, IEEE Transactions on , Volume: 31 , Issue: 1 , Jan 1995

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Laughlin, R.L.; Bacon, J.L.; Zowarka, R.C.; Price, J.H.;

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Weldon, W.F.; Bacon, J.L.; Weeks, D.A.; Zowarka, R.C., Jr.;

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Pages:7 - 7[\[PDF Full-Text \(209KB\)\]](#) **IEEE JNL****3 Composite event detection as a generic middleware extension***Pietzuch, P.R.; Shand, B.; Bacon, J.;*Network, IEEE , Volume: 18 , Issue: 1 , Jan/Feb 2004
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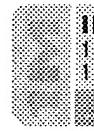
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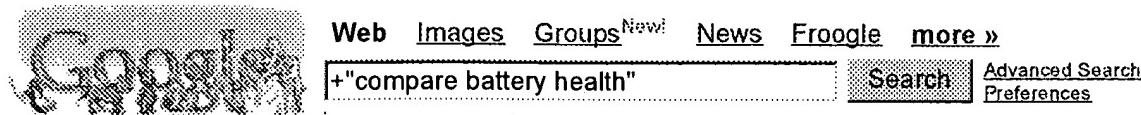
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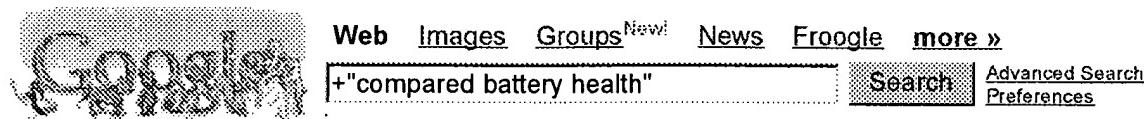
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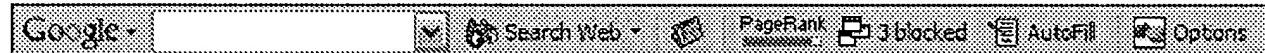
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Telescon '97 - The Second International Telecommunications Energy Special Conference , April 22-24,1997

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2 Behavior of VRLA cells on long term float. II. The effects of temperature and catalysis on gas evolution and consequent water loss*Jones, W.E.M.; Feder, D.O.;*

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